

**Mirant Potomac, Alexandria, Virginia**  
**Complying SO2 Rates w/ Marina Towers EBDs (Existing Stacks)**

Complying Concentrations ( $\mu\text{g}/\text{m}^3$ )

3hr: 1124.6

24hr: 310

Assumes Background Concentrations ( $\mu\text{g}/\text{m}^3$ )

3hr: 175.4

24hr: 55

Scenario	Units On	Operating Hours	Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Concentration ( $\mu\text{g}/\text{m}^3$ )				
					2002	2003	2004	2005	2006
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	3-hour	0.38	545	485	569	1,101	790
			24-hour	0.46	259	210	220	302	245
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	3-Hour	0.38	673	518	513	1,101	759
			24-Hour	0.50	305	265	236	279	279
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	3-Hour	0.43	592	514	458	1,109	870
			24-Hour	0.63	305	214	215	284	303
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	3-Hour	0.43	809	559	576	1,109	871
			24-Hour	0.54	298	243	191	286	303
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	3-Hour	0.42	626	495	534	1,098	900
			24-Hour	0.64	281	193	217	278	305
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	3-Hour	0.42	902	559	600	1,098	934
			24-Hour	0.55	299	235	223	304	306
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	0.34	716	524	504	1,124	630
			24-Hour	0.44	267	192	211	303	270
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	3-Hour	0.34	723	524	467	1,124	630
			24-Hour	0.49	305	237	241	298	302
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	0.36	632	538	438	1,101	615
			24-Hour	0.45	261	178	196	302	236
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	3-Hour	0.36	720	493	437	1,101	615
			24-Hour	0.49	306	225	216	295	284
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	0.40	603	533	383	1,097	618
			24-Hour	0.59	306	169	176	275	267
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	3-Hour	0.40	774	494	495	1,097	654
			24-Hour	0.49	306	186	184	228	272
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	3-Hour	0.27	597	575	658	1,117	867
			24-Hour	0.39	284	214	218	301	285
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	3-Hour	0.27	814	557	577	1,117	872
			24-Hour	0.35	301	246	194	283	297
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	3-Hour	0.27	814	570	577	1,117	872
			24-Hour	0.32	303	247	202	284	283
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	1.25	763	458	436	1,118	585
			24-Hour	1.71	308	150	167	281	247
8b	1	16 hrs max/ 8 hrs off	3-Hour	1.24	572	710	461	1,113	458
			24-Hour	1.66	224	160	160	308	144
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	1.01	751	505	487	1,110	546
			24-Hour	1.47	307	183	233	275	250
9b	2	16 hrs max/ 8 hrs off	3-Hour	0.96	587	724	504	1,116	628
			24-Hour	1.46	253	207	227	307	224
10a	3	12 hrs max/ 12 hrs min	3-Hour	0.75	616	538	505	1,113	681
			24-Hour	0.98	308	271	253	279	305
10b	3	16 hrs max/ 8 hrs min	3-Hour	0.75	573	538	627	1,113	754
			24-Hour	0.91	278	225	238	306	260
11a	4	12 hrs max/ 12 hrs min	3-Hour	0.79	792	557	568	1,115	861
			24-Hour	1.02	306	259	219	284	292
11b	4	16 hrs max/ 8 hrs min	3-Hour	0.79	598	536	503	1,115	849
			24-Hour	0.96	249	200	208	307	237
12a	5	12 hrs max/ 12 hrs min	3-Hour	0.80	936	501	642	1,109	987
			24-Hour	1.06	284	184	259	290	306
12b	5	16 hrs max/ 8 hrs min	3-Hour	0.80	602	440	642	1,109	987
			24-Hour	1.37	265	184	283	234	309
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	0.55	743	468	448	1,096	560
			24-Hour	0.79	306	163	193	278	248
13b	1,2	Both units 16 hrs max/ 8 hrs off	3-Hour	0.54	566	725	488	1,113	541
			24-Hour	0.77	241	174	185	305	187

Scenario	Units On	Operating Hours	Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Concentration (µg/m <sup>3</sup> )				
					2002	2003	2004	2005	2006
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max/12 hrs min	3-Hour	0.49	649	521	467	1,099	617
			24-Hour	0.72	307	261	247	303	304
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	0.49	636	521	508	1,099	617
			24-Hour	0.61	251	200	212	306	269
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max/12 hrs min	3-Hour	0.51	680	443	433	1,107	638
			24-Hour	0.71	304	241	213	295	286
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	0.51	539	472	433	1,107	595
			24-Hour	0.63	238	182	192	305	229
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max/12 hrs min	3-Hour	0.60	817	484	548	1,112	790
			24-Hour	0.74	306	192	202	258	285
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	0.60	561	514	516	1,112	742
			24-Hour	0.93	281	164	232	260	306
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max/12 hrs min	3-Hour	0.45	679	522	475	1,098	610
			24-Hour	0.65	307	258	256	288	289
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	0.45	666	522	568	1,098	610
			24-Hour	0.58	275	204	229	304	273
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max/12 hrs min	3-Hour	0.48	754	507	481	1,104	630
			24-Hour	0.65	305	243	232	285	283
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	0.48	609	507	499	1,104	606
			24-Hour	0.60	258	188	210	304	227
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max/12 hrs min	3-Hour	0.56	882	507	605	1,110	773
			24-Hour	0.65	305	191	184	245	264
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	0.56	618	540	499	1,110	692
			24-Hour	0.85	308	174	222	256	300
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max/12 hrs min	3-Hour	0.30	646	470	444	1,097	600
			24-Hour	0.42	300	259	234	282	288
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max/12 hrs min	3-Hour	0.33	706	453	468	1,101	712
			24-Hour	0.44	305	236	186	266	292
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max/12 hrs min	3-Hour	0.33	791	503	530	1,110	786
			24-Hour	0.43	303	221	187	270	289
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max/12 hrs min	3-Hour	0.29	694	493	459	1,098	609
			24-Hour	0.41	305	267	248	286	292
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max/12 hrs min	3-Hour	0.31	759	473	510	1,109	710
			24-Hour	0.41	302	234	194	265	281
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max/12 hrs min	3-Hour	0.32	838	512	572	1,120	784
			24-Hour	0.39	302	214	174	256	270

**Mirant Potomac, Alexandria, Virginia**  
**Complying SO2 Rates w/ Ground Level EBDs (Existing Stacks)**

Complying Concentrations ( $\mu\text{g}/\text{m}^3$ )  
 3hr: 1124.6  
 24hr: 310

Assumes Background Concentrations ( $\mu\text{g}/\text{m}^3$ )  
 3hr: 175.4  
 24hr: 55

Scenario	Units On	Operating Hours	Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Concentration ( $\mu\text{g}/\text{m}^3$ )				
					2002	2003	2004	2005	2006
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	3-hour	1.22	1,116	791	941	1,020	864
			24-hour	0.84	232	305	287	302	274
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	3-Hour	1.45	902	940	1,119	949	1,027
			24-Hour	0.89	245	305	307	307	270
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	3-Hour	1.22	1,113	777	906	1,026	811
			24-Hour	0.84	231	305	283	302	271
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	3-Hour	1.50	923	955	1,114	977	997
			24-Hour	0.88	247	304	282	306	271
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	3-Hour	1.23	1,119	778	947	1,062	813
			24-Hour	0.84	233	306	282	302	275
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	3-Hour	1.46	893	922	1,113	975	962
			24-Hour	0.88	249	308	296	308	284
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	1.20	1,103	1,022	1,116	968	1,098
			24-Hour	0.74	221	306	290	284	240
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	3-Hour	1.24	964	1,033	1,115	1,000	1,061
			24-Hour	0.75	220	305	293	283	238
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	1.22	1,111	1,001	1,078	949	1,113
			24-Hour	0.77	222	308	290	290	246
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	3-Hour	1.26	975	1,034	1,111	980	1,088
			24-Hour	0.77	222	308	290	288	242
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	1.22	1,066	981	1,050	915	1,112
			24-Hour	0.79	220	306	275	292	250
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	3-Hour	1.30	958	1,045	1,118	975	1,119
			24-Hour	0.79	216	307	281	292	247
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	3-Hour	0.81	1,116	776	913	1,029	808
			24-Hour	0.56	232	305	283	302	274
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	3-Hour	0.99	914	948	1,116	970	988
			24-Hour	0.58	244	302	279	302	271
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	3-Hour	1.12	1,005	1,039	1,062	1,098	1,118
			24-Hour	0.59	238	287	275	306	272
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	3.33	861	1,044	924	810	1,119
			24-Hour	2.29	196	308	253	235	243
8b	1	16 hrs max/ 8 hrs off	3-Hour	2.97	716	1,122	824	911	1,005
			24-Hour	1.89	171	308	234	195	211
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	2.94	900	980	905	800	1,120
			24-Hour	2.11	192	309	241	239	285
9b	2	16 hrs max/ 8 hrs off	3-Hour	2.71	752	1,115	835	868	1,118
			24-Hour	1.84	190	308	241	224	233
10a	3	12 hrs max/ 12 hrs min	3-Hour	2.77	891	915	1,085	902	1,121
			24-Hour	1.67	223	286	309	286	245
10b	3	16 hrs max/ 8 hrs min	3-Hour	2.49	1,118	822	975	1,017	1,008
			24-Hour	1.68	231	304	308	302	267
11a	4	12 hrs max/ 12 hrs min	3-Hour	2.92	901	935	1,122	961	973
			24-Hour	1.75	245	307	284	304	278
11b	4	16 hrs max/ 8 hrs min	3-Hour	2.40	1,119	768	922	1,030	800
			24-Hour	1.69	234	307	284	303	282

Scenario	Units On	Operating Hours	Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Concentration (µg/m <sup>3</sup> )				
					2002	2003	2004	2005	2006
12a	5	12 hrs max/ 12 hrs min	3-Hour	2.96	909	955	1,119	1,015	998
			24-Hour	1.72	252	307	300	303	278
12b	5	16 hrs max/ 8 hrs min	3-Hour	2.56	1,119	826	1,081	1,112	863
			24-Hour	1.69	237	308	295	305	271
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	1.62	891	1,027	952	821	1,118
			24-Hour	1.14	198	307	249	246	246
13b	1,2	Both units 16 hrs max/ 8 hrs off	3-Hour	1.41	737	1,112	828	884	1,052
			24-Hour	0.94	183	308	236	211	215
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max /12 hrs min	3-Hour	1.85	942	1,053	1,100	1,018	1,118
			24-Hour	1.08	221	307	299	286	241
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	1.66	1,084	944	1,119	914	1,003
			24-Hour	1.07	224	307	297	291	247
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max /12 hrs min	3-Hour	1.85	947	1,029	1,069	959	1,118
			24-Hour	1.12	226	307	296	292	252
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	1.73	1,119	962	1,020	896	1,045
			24-Hour	1.11	221	307	286	292	258
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max /12 hrs min	3-Hour	2.01	961	1,065	1,117	1,012	1,083
			24-Hour	1.15	226	307	275	295	261
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	1.83	1,117	970	1,017	927	991
			24-Hour	1.16	223	308	277	297	269
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max /12 hrs min	3-Hour	1.69	897	1,009	1,099	978	1,118
			24-Hour	1.03	222	306	300	286	242
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	1.57	1,083	937	1,116	909	1,039
			24-Hour	1.02	223	307	297	289	248
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max /12 hrs min	3-Hour	1.75	925	990	1,117	975	1,099
			24-Hour	1.04	222	307	291	287	252
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	1.67	1,119	945	1,066	931	1,048
			24-Hour	1.06	225	306	290	295	265
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max /12 hrs min	3-Hour	1.80	922	985	1,117	955	989
			24-Hour	1.08	233	307	271	289	262
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	1.73	1,117	947	1,074	933	951
			24-Hour	1.10	228	308	274	298	272
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max /12 hrs min	3-Hour	1.10	888	978	1,014	926	1,110
			24-Hour	0.68	225	303	305	289	255
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max /12 hrs min	3-Hour	1.23	967	1,058	1,115	1,022	1,110
			24-Hour	0.70	231	306	294	295	262
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max /12 hrs min	3-Hour	1.20	925	998	1,111	994	1,038
			24-Hour	0.71	240	306	286	300	271
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max /12 hrs min	3-Hour	1.08	895	968	1,112	938	1,115
			24-Hour	0.65	225	304	302	286	254
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max /12 hrs min	3-Hour	1.13	927	980	1,113	969	1,047
			24-Hour	0.66	228	305	288	288	257
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max /12 hrs min	3-Hour	1.11	906	958	1,115	955	972
			24-Hour	0.66	234	303	272	286	262

Mirant Potomac, Alexandria, Virginia  
 Complying SO2 Rates w/ Marina Towers EBDs (Existing Stacks)

Complying Concentrations ( $\mu\text{g}/\text{m}^3$ )  
 Annual: 64

Assumes Background Concentrations ( $\mu\text{g}/\text{m}^3$ )  
 Annual: 16

Scenario	Units On	Operating Hours	Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Concentration ( $\mu\text{g}/\text{m}^3$ )				
					2002	2003	2004	2005	2006
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	Annual	0.79	63.8	38.9	57.0	48.2	61.5
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	Annual	0.73	63.6	39.7	54.2	47.3	62.3
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	Annual	0.99	62.6	37.0	53.6	47.6	63.2
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	Annual	0.87	62.6	37.4	50.8	46.9	63.6
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	Annual	1.10	60.9	36.1	50.9	47.4	63.6
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	Annual	0.93	60.8	35.7	47.7	45.9	63.6
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	0.77	63.9	40.4	59.2	49.4	61.0
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	0.74	63.2	40.7	57.4	48.7	60.9
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	0.84	63.1	40.2	57.9	49.7	61.5
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	0.80	63.1	40.3	56.4	49.0	62.1
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.07	61.6	38.5	54.5	49.5	63.3
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	0.97	61.9	37.9	52.9	48.9	63.4
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	Annual	0.64	63.8	38.2	55.2	48.7	63.8
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	Annual	0.56	62.8	38.0	51.5	47.1	63.5
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	Annual	0.53	62.8	37.1	49.9	45.4	63.7
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	Annual	3.77	63.8	42.9	61.3	52.3	62.1
8b	1	16 hrs max/ 8 hrs off	Annual	4.11	60.8	45.5	63.9	52.5	54.6
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	Annual	2.94	63.8	41.7	60.5	50.8	61.2
9b	2	16 hrs max/ 8 hrs off	Annual	2.98	63.0	44.0	63.8	52.2	55.6
10a	3	12 hrs max/ 12 hrs min	Annual	1.36	63.6	40.1	55.3	47.2	61.2
10b	3	16 hrs max/ 8 hrs min	Annual	1.43	63.4	38.4	57.2	47.2	60.0
11a	4	12 hrs max/ 12 hrs min	Annual	1.58	63.7	39.2	53.1	47.5	63.7
11b	4	16 hrs max/ 8 hrs min	Annual	1.74	63.5	38.9	55.9	48.7	62.5
12a	5	12 hrs max/ 12 hrs min	Annual	2.27	57.1	30.6	40.1	43.7	63.8
12b	5	16 hrs max/ 8 hrs min	Annual	2.88	56.4	30.1	40.7	43.5	63.7
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	Annual	1.65	63.8	42.2	60.8	51.4	61.5
13b	1,2	Both units 16 hrs max/ 8 hrs off	Annual	1.72	61.8	44.5	63.6	52.1	55.0
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	0.99	63.1	40.5	56.4	48.1	60.9
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	1.04	63.7	39.8	58.5	48.7	60.8
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.11	63.5	40.2	55.3	48.8	63.1
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.19	63.7	39.8	58.5	48.7	60.8
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.43	60.2	35.6	48.5	47.4	63.7
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.66	63.6	40.1	57.6	49.8	62.3
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	0.93	63.0	40.2	56.4	47.8	60.6
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	0.96	59.5	36.3	50.4	48.1	63.7
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.02	63.2	39.8	55.3	48.3	62.4
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.09	63.4	39.4	58.1	48.3	60.2
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.30	60.9	36.0	49.7	47.5	63.6
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.49	63.4	39.8	57.4	49.3	61.8
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,4 @ 12 hrs max/ 12 hrs min	Annual	0.61	63.4	40.1	55.2	48.0	62.1
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,5 @ 12 hrs max/ 12 hrs min	Annual	0.71	63.1	38.6	53.0	48.2	63.6
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 4,5 @ 12 hrs max/ 12 hrs min	Annual	0.75	61.8	37.3	50.6	47.4	62.8
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,4 @ 12 hrs max/ 12 hrs min	Annual	0.58	63.1	39.7	55.0	47.6	61.6
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,5 @ 12 hrs max/ 12 hrs min	Annual	0.68	63.7	38.9	53.7	48.4	63.9
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 4,5 @ 12 hrs max/ 12 hrs min	Annual	0.71	61.9	37.3	51.0	47.3	63.4

Mirant Potomac, Alexandria, Virginia  
Complying SO2 Rates w/ Ground Level EBDs (Existing Stacks)

Complying Concentrations (µg/m³)  
Annual: 64

Assumes Background Concentrations (µg/m³)  
Annual: 16

Scenario	Units On	Operating Hours	Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Concentration (µg/m³)				
					2002	2003	2004	2005	2006
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	Annual	1.28	49.9	54.6	63.6	59.7	59.1
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	Annual	1.30	50.4	54.9	63.4	60.1	59.9
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	Annual	1.27	50.0	54.2	63.4	59.6	58.9
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	Annual	1.28	50.7	54.8	63.4	60.2	59.6
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	Annual	1.27	49.8	54.2	63.5	59.4	60.1
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	Annual	1.27	50.5	54.6	63.4	59.9	59.6
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	1.28	49.4	56.2	63.7	61.1	62.7
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	1.29	49.4	56.2	63.5	61.2	62.6
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.28	49.0	55.9	63.5	60.7	62.2
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.29	49.4	56.2	63.6	61.1	62.2
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.28	49.5	55.9	63.7	61.1	62.1
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.28	50.0	56.1	63.7	61.4	62.4
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	Annual	0.85	49.9	54.3	63.5	59.6	59.1
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	Annual	0.85	50.2	54.4	63.0	59.6	59.1
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	Annual	0.88	51.3	54.9	63.6	60.5	59.8
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	Annual	5.14	46.9	55.1	60.9	60.0	63.8
8b	1	16 hrs max/ 8 hrs off	Annual	4.60	45.8	52.6	57.5	58.0	63.8
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	Annual	4.76	47.1	56.0	61.9	60.0	63.9
9b	2	16 hrs max/ 8 hrs off	Annual	4.01	46.4	54.4	59.6	59.1	63.8
10a	3	12 hrs max/ 12 hrs min	Annual	2.62	50.8	55.3	63.8	60.7	60.8
10b	3	16 hrs max/ 8 hrs min	Annual	2.56	50.3	54.9	63.9	60.1	60.0
11a	4	12 hrs max/ 12 hrs min	Annual	2.60	50.6	55.2	63.8	60.2	59.5
11b	4	16 hrs max/ 8 hrs min	Annual	2.58	50.0	54.6	63.9	59.8	59.8
12a	5	12 hrs max/ 12 hrs min	Annual	2.51	50.9	54.6	63.7	60.2	60.5
12b	5	16 hrs max/ 8 hrs min	Annual	2.52	50.1	54.2	63.7	59.7	60.8
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	Annual	2.48	47.0	55.8	61.6	60.2	63.9
13b	1,2	Both units 16 hrs max/ 8 hrs off	Annual	2.14	46.1	52.9	57.8	58.5	63.7
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	1.76	50.1	56.0	63.7	61.3	61.8
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	1.73	49.7	55.7	63.6	60.8	61.6
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.75	49.8	55.6	63.5	60.9	61.0
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.74	49.5	55.5	63.7	60.6	61.4
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.73	50.4	55.4	63.6	61.2	61.1
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.73	49.8	55.2	63.7	60.8	60.8
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	1.70	49.7	55.9	63.5	60.8	62.3
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	1.68	49.6	55.8	63.8	60.6	61.9
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.70	49.9	55.8	63.7	60.8	61.7
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.69	49.4	55.7	63.8	60.5	61.2
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.66	50.1	55.4	63.5	60.7	61.1
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.67	49.7	55.3	63.7	60.6	61.5
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,4 @ 12 hrs max/ 12 hrs min	Annual	1.05	50.2	55.5	63.7	60.8	60.9
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,5 @ 12 hrs max/ 12 hrs min	Annual	1.04	50.4	55.3	63.5	60.8	60.9
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 4,5 @ 12 hrs max/ 12 hrs min	Annual	1.03	50.1	54.8	63.1	60.3	60.0
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,4 @ 12 hrs max/ 12 hrs min	Annual	1.03	50.2	55.6	63.7	60.6	61.3
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,5 @ 12 hrs max/ 12 hrs min	Annual	1.02	50.5	55.5	63.6	60.8	61.2
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 4,5 @ 12 hrs max/ 12 hrs min	Annual	1.01	50.1	55.1	63.4	60.4	60.3

**Mirant Potomac, Alexandria, Virginia**  
**Complying SO2 Rates (Existing Stacks)**

Complying Concentrations ( $\mu\text{g}/\text{m}^3$ )

3hr: 1124.6

24hr: 310

Assumes Background Concentrations ( $\mu\text{g}/\text{m}^3$ )

3hr: 175.4

24hr: 55

Scenario	Units On	Operating Hours	Averaging Period	Marina Towers EBDs Complying SO <sub>2</sub> Rate (lb/MMBtu)	Ground Level EBDs Complying SO <sub>2</sub> Rate (lb/MMBtu)
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	3-hour	0.38	1.22
			24-hour	0.46	0.84
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	3-Hour	0.38	1.45
			24-Hour	0.50	0.89
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	3-Hour	0.43	1.22
			24-Hour	0.63	0.84
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	3-Hour	0.43	1.50
			24-Hour	0.54	0.88
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	3-Hour	0.42	1.23
			24-Hour	0.64	0.84
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	3-Hour	0.42	1.46
			24-Hour	0.55	0.88
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	0.34	1.20
			24-Hour	0.44	0.74
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	3-Hour	0.34	1.24
			24-Hour	0.49	0.75
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	0.36	1.22
			24-Hour	0.45	0.77
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	3-Hour	0.36	1.26
			24-Hour	0.49	0.77
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	0.40	1.22
			24-Hour	0.59	0.79
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	3-Hour	0.40	1.30
			24-Hour	0.49	0.79
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	3-Hour	0.27	0.81
			24-Hour	0.39	0.56
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	3-Hour	0.27	0.99
			24-Hour	0.35	0.58
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	3-Hour	0.27	1.12
			24-Hour	0.32	0.59
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	1.25	3.33
			24-Hour	1.71	2.29
8b	1	16 hrs max/ 8 hrs off	3-Hour	1.24	2.97
			24-Hour	1.66	1.89
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	1.01	2.94
			24-Hour	1.47	2.11
9b	2	16 hrs max/ 8 hrs off	3-Hour	0.96	2.71
			24-Hour	1.46	1.84
10a	3	12 hrs max/ 12 hrs min	3-Hour	0.75	2.77
			24-Hour	0.98	1.67
10b	3	16 hrs max/ 8 hrs min	3-Hour	0.75	2.49
			24-Hour	0.91	1.68
11a	4	12 hrs max/ 12 hrs min	3-Hour	0.79	2.92
			24-Hour	1.02	1.75
11b	4	16 hrs max/ 8 hrs min	3-Hour	0.79	2.40
			24-Hour	0.96	1.69
12a	5	12 hrs max/ 12 hrs min	3-Hour	0.80	2.96
			24-Hour	1.06	1.72
12b	5	16 hrs max/ 8 hrs min	3-Hour	0.80	2.56
			24-Hour	1.37	1.69
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	3-Hour	0.55	1.62
			24-Hour	0.79	1.14
13b	1,2	Both units 16 hrs max/ 8 hrs off	3-Hour	0.54	1.41
			24-Hour	0.77	0.94

Scenario	Units On	Operating Hours	Averaging Period	Marina Towers EBDs Complying SO <sub>2</sub> Rate (lb/MMBtu)	Ground Level EBDs Complying SO <sub>2</sub> Rate (lb/MMBtu)
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max /12 hrs min	3-Hour	0.49	1.85
			24-Hour	0.72	1.08
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	0.49	1.66
			24-Hour	0.61	1.07
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max /12 hrs min	3-Hour	0.51	1.85
			24-Hour	0.71	1.12
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	0.51	1.73
			24-Hour	0.63	1.11
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max /12 hrs min	3-Hour	0.60	2.01
			24-Hour	0.74	1.15
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	0.60	1.83
			24-Hour	0.93	1.16
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max /12 hrs min	3-Hour	0.45	1.69
			24-Hour	0.65	1.03
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 16 hrs max/ 8 hrs min	3-Hour	0.45	1.57
			24-Hour	0.58	1.02
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max /12 hrs min	3-Hour	0.48	1.75
			24-Hour	0.65	1.04
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 16 hrs max/ 8 hrs min	3-Hour	0.48	1.67
			24-Hour	0.60	1.06
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max /12 hrs min	3-Hour	0.56	1.80
			24-Hour	0.65	1.08
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	3-Hour	0.56	1.73
			24-Hour	0.85	1.10
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max /12 hrs min	3-Hour	0.30	1.10
			24-Hour	0.42	0.68
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max /12 hrs min	3-Hour	0.33	1.23
			24-Hour	0.44	0.70
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max /12 hrs min	3-Hour	0.33	1.20
			24-Hour	0.43	0.71
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max /12 hrs min	3-Hour	0.29	1.08
			24-Hour	0.41	0.65
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max /12 hrs min	3-Hour	0.31	1.13
			24-Hour	0.41	0.66
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max /12 hrs min	3-Hour	0.32	1.11
			24-Hour	0.39	0.66

Mirant Potomac, Alexandria, Virginia  
 Complying SO2 Rates w/ Ground Level EBDs (Existing Stacks)

Complying Concentrations (µg/m<sup>3</sup>)  
 Annual: 64

Assumes Background Concentrations (µg/m<sup>3</sup>)  
 Annual: 16

Scenario	Units On	Operating Hours	Averaging Period	Marina Towers EBDs Complying SO <sub>2</sub> Rate (lb/MMBtu)	Ground Level EBDs Complying SO <sub>2</sub> Rate (lb/MMBtu)
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	Annual	0.79	1.28
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	Annual	0.73	1.30
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	Annual	0.99	1.27
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	Annual	0.87	1.28
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	Annual	1.10	1.27
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	Annual	0.93	1.27
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	0.77	1.28
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	0.74	1.29
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	0.84	1.28
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	0.80	1.29
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.07	1.28
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	0.97	1.28
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	Annual	0.64	0.85
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	Annual	0.56	0.85
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	Annual	0.53	0.88
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	Annual	3.77	5.14
8b	1	16 hrs max/ 8 hrs off	Annual	4.11	4.60
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	Annual	2.94	4.76
9b	2	16 hrs max/ 8 hrs off	Annual	2.98	4.01
10a	3	12 hrs max/ 12 hrs min	Annual	1.36	2.62
10b	3	16 hrs max/ 8 hrs min	Annual	1.43	2.56
11a	4	12 hrs max/ 12 hrs min	Annual	1.58	2.60
11b	4	16 hrs max/ 8 hrs min	Annual	1.74	2.58
12a	5	12 hrs max/ 12 hrs min	Annual	2.27	2.51
12b	5	16 hrs max/ 8 hrs min	Annual	2.88	2.52
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	Annual	1.65	2.48
13b	1,2	Both units 16 hrs max/ 8 hrs off	Annual	1.72	2.14
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	0.99	1.76
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	1.04	1.73
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.11	1.75
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.19	1.74
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.43	1.73
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.66	1.73
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Annual	0.93	1.70
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Annual	0.96	1.68
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Annual	1.02	1.70
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Annual	1.09	1.69
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Annual	1.30	1.66
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Annual	1.49	1.67
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,4 @ 12 hrs max/ 12 hrs min	Annual	0.61	1.05
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,5 @ 12 hrs max/ 12 hrs min	Annual	0.71	1.04
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 4,5 @ 12 hrs max/ 12 hrs min	Annual	0.75	1.03
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,4 @ 12 hrs max/ 12 hrs min	Annual	0.58	1.03
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 3,5 @ 12 hrs max/ 12 hrs min	Annual	0.68	1.02
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Units 4,5 @ 12 hrs max/ 12 hrs min	Annual	0.71	1.01

**Units 1, 2, 3, 4, 5 at Max Load**

<b>Unit #</b>	<b>Stack Height (m)</b>	<b>Heat Input (MMBtu/hr)</b>	<b>Capacity Factor</b>	<b>Temp (K)</b>	<b>Velocity (m/s)</b>	<b>Diameter (m)</b>
Unit 1	48.158	1053	88	444.3	35.7	2.6
Unit 2	48.158	1029	88	455.4	30.2	2.6
Unit 3	48.158	1018	107	405.4	30.8	2.4
Unit 4	48.158	1087	107	405.4	33.2	2.4
Unit 5	48.158	1107	107	405.4	33.8	2.4

**Units 1, 2, 3, 4, 5 at Min Load**

<b>Unit #</b>	<b>Stack Height (m)</b>	<b>Heat Rate (MMBtu/MWh)</b>	<b>Capacity Factor</b>	<b>Temp (K)</b>	<b>Velocity (m/s)</b>	<b>Diameter (m)</b>
Unit 1	48.158	14	35	442.6	19.0	2.6
Unit 2	48.158	13.4	35	431.5	18.7	2.6
Unit 3	48.158	10.8	35	413.2	15.3	2.4
Unit 4	48.158	11.3	35	411.3	15.1	2.4
Unit 5	48.158	11.3	35	406.0	13.9	2.4

Scenario	Units On	Operating Hours	Modeled Emission Rates & Operating Hours															Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Most Limiting SO <sub>2</sub> Rate (lb/MMBtu)	Complying Hourly SO <sub>2</sub> Rate (lb/hr)	Complying SO <sub>2</sub> Rate (lb/day)	24-hr Average Hourly SO <sub>2</sub> Rate (lb/hr)	Maximum Projected Annual Emissions (tons/yr)			
			Unit 3 (max)	386.84	lbs/hr	Unit 3 (min)	143.64	lbs/hr	Unit 4 (max)	413.06	lbs/hr	Unit 4 (min)	150.29	lbs/hr		lbs/hr									lbs/hr	3-hour	
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	Unit 3 (max)	386.84	hours	Unit 3 (min)	8	hours	Unit 4 (max)	413.06	hours	Unit 4 (min)	150.29	hours		hours		hours	24-hour	0.46	0.38	800	15150	631	2765		
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	Unit 3 (max)	386.84	hours	Unit 3 (min)	12	hours	Unit 4 (max)	413.06	hours	Unit 4 (min)	150.29	hours		hours		hours	3-Hour	0.38						800	13126
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	Unit 3 (max)	437.74	hours	Unit 3 (min)	8	hours	Unit 5 (max)	476.01	hours	Unit 5 (min)	170.07	hours		hours		hours	3-Hour	0.43	0.43	914	17281	720	3154		
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	Unit 3 (max)	437.74	hours	Unit 3 (min)	12	hours	Unit 5 (max)	476.01	hours	Unit 5 (min)	170.07	hours		hours		hours	24-Hour	0.43						914	14956
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	Unit 4 (max)	466.11	hours	Unit 4 (min)	8	hours	Unit 5 (max)	464.94	hours	Unit 5 (min)	166.11	hours		hours		hours	3-Hour	0.42	0.42	921	17401	725	3176		
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	Unit 4 (max)	466.11	hours	Unit 4 (min)	12	hours	Unit 5 (max)	464.94	hours	Unit 5 (min)	166.11	hours		hours		hours	24-Hour	0.42						921	15044
4a	1,2,3	Units 1, 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	358.02	hours	Unit 1 (min)	8	hours	Unit 2 (max)	349.86	hours	Unit 2 (min)	159.46	hours	Unit 3 (max)	346.12	hours	Unit 3 (min)	128.52	hours	3-Hour	0.34	0.34	1054	14838	618	2708
4b	1,2,3	Units 1, 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	358.02	hours	Unit 1 (min)	8	hours	Unit 2 (max)	349.86	hours	Unit 2 (min)	159.46	hours	Unit 3 (max)	346.12	hours	Unit 3 (min)	128.52	hours	3-Hour	0.34					
5a	1,2,4	Units 1, 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	379.08	hours	Unit 1 (min)	8	hours	Unit 2 (max)	370.44	hours	Unit 2 (min)	168.84	hours	Unit 4 (max)	391.32	hours	Unit 4 (min)	142.38	hours	3-Hour	0.36	0.36	1141	16158	673	2949
5b	1,2,4	Units 1, 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	379.08	hours	Unit 1 (min)	8	hours	Unit 2 (max)	370.44	hours	Unit 2 (min)	168.84	hours	Unit 4 (max)	391.32	hours	Unit 4 (min)	142.38	hours	3-Hour	0.36					
6a	1,2,5	Units 1, 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	421.2	hours	Unit 1 (min)	8	hours	Unit 2 (max)	411.6	hours	Unit 2 (min)	187.6	hours	Unit 3 (max)	407.2	hours	Unit 3 (min)	151.2	hours	3-Hour	0.40	0.40	1240	17456	727	3186
6b	1,2,5	Units 1, 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	421.2	hours	Unit 1 (min)	8	hours	Unit 2 (max)	411.6	hours	Unit 2 (min)	187.6	hours	Unit 3 (max)	407.2	hours	Unit 3 (min)	151.2	hours	3-Hour	0.40					
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	Unit 3 (max)	274.86	hours	Unit 3 (min)	8	hours	Unit 4 (max)	293.49	hours	Unit 4 (min)	106.785	hours	Unit 5 (max)	298.89	hours	Unit 5 (min)	106.785	hours	3-Hour	0.27	0.27	867	16401	683	2993
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	Unit 3 (max)	274.86	hours	Unit 3 (min)	12	hours	Unit 4 (max)	293.49	hours	Unit 4 (min)	106.785	hours	Unit 5 (max)	298.89	hours	Unit 5 (min)	106.785	hours	3-Hour	0.27					
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	Unit 3 (max)	274.86	hours	Unit 3 (min)	16	hours	Unit 4 (max)	293.49	hours	Unit 4 (min)	106.785	hours	Unit 5 (max)	298.89	hours	Unit 5 (min)	106.785	hours	3-Hour	0.27	0.27	867	11988	500	2188
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	Unit 1 (max)	1316.25	hours	Unit 1 (min)	8	hours												3-Hour	1.25	1.25					
8b	1	16 hrs max/ 8 hrs off	Unit 1 (max)	1305.72	hours															3-Hour	1.24	1.24	1306	20892	870	3813	
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	Unit 2 (max)	1039.29	hours	Unit 2 (min)	8	hours												3-Hour	1.01						1.01
9b	2	16 hrs max/ 8 hrs off	Unit 2 (max)	987.84	hours															3-Hour	0.96	0.96	988	15805	659	2884	
10a	3	12 hrs max/ 12 hrs min	Unit 3 (max)	763.5	hours	Unit 3 (min)	12	hours												3-Hour	0.75						0.75
10b	3	16 hrs max/ 8 hrs min	Unit 3 (max)	763.5	hours	Unit 3 (min)	8	hours												3-Hour	0.75	764	14484	604	2643		
11a	4	12 hrs max/ 12 hrs min	Unit 4 (max)	858.73	hours	Unit 4 (min)	12	hours												3-Hour	0.79	0.79	859	14054	586	2565	
11b	4	16 hrs max/ 8 hrs min	Unit 4 (max)	858.73	hours	Unit 4 (min)	8	hours												3-Hour	0.79						859
12a	5	12 hrs max/ 12 hrs min	Unit 5 (max)	885.6	hours	Unit 5 (min)	12	hours												3-Hour	0.80	0.80	886	14424	601	2632	
12b	5	16 hrs max/ 8 hrs min	Unit 5 (max)	885.6	hours	Unit 5 (min)	8	hours												3-Hour	0.80						886
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	Unit 1 (max)	579.15	hours	Unit 1 (min)	8	hours	Unit 2 (max)	565.95	hours	Unit 2 (min)	257.95	hours						3-Hour	0.55	0.55	1145	13380	558	2442	
13b	1,2	Both units 16 hrs max/ 8 hrs off	Unit 1 (max)	568.62	hours				Unit 2 (max)	555.66	hours									3-Hour	0.54						0.54
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	515.97	hours	Unit 1 (min)	8	hours	Unit 3 (max)	498.82	hours	Unit 3 (min)	185.22	hours						3-Hour	0.49	0.49	1015	14257	594	2602	
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	515.97	hours	Unit 1 (min)	8	hours	Unit 3 (max)	498.82	hours	Unit 3 (min)	185.22	hours						3-Hour	0.49						0.49
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	537.03	hours	Unit 1 (min)	8	hours	Unit 4 (max)	554.37	hours	Unit 4 (min)	201.705	hours						3-Hour	0.51	0.51	1091	15368	640	2805	
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	537.03	hours	Unit 1 (min)	8	hours	Unit 4 (max)	554.37	hours	Unit 4 (min)	201.705	hours						3-Hour	0.51						0.51
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	631.8	hours	Unit 1 (min)	8	hours	Unit 5 (max)	664.2	hours	Unit 5 (min)	237.30	hours						3-Hour	0.60	0.60	1296	18224	759	3326	
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	631.8	hours	Unit 1 (min)	8	hours	Unit 5 (max)	664.2	hours	Unit 5 (min)	237.30	hours						3-Hour	0.60						0.60
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max/ 12 hrs min	Unit 2 (max)	463.05	hours	Unit 2 (min)	8	hours	Unit 3 (max)	458.1	hours	Unit 3 (min)	170.1	hours						3-Hour	0.45	0.45	921	12931	539	2360	
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Unit 2 (max)	463.05	hours	Unit 2 (min)	8	hours	Unit 3 (max)	458.1	hours	Unit 3 (min)	170.1	hours						3-Hour	0.45						0.45

Scenario	Units On	Operating Hours	Modeled Emission Rates & Operating Hours																Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Most Limiting SO <sub>2</sub> Rate (lb/MMBtu)	Complying Hourly SO <sub>2</sub> Rate (lb/hr)	Complying SO <sub>2</sub> Rate (lb/day)	24-hr Average Hourly SO <sub>2</sub> Rate (lb/hr)	Maximum Projected Annual Emissions (tons/yr)								
			Unit 2 (max)	493.92	lbs/hr	Unit 2 (min)	225.12	lbs/hr	Unit 4 (max)	521.76	lbs/hr	Unit 4 (min)	189.84	lbs/hr	Unit 4 (max)	521.76	lbs/hr	Unit 4 (min)								189.84	lbs/hr	Unit 4 (max)	521.76	lbs/hr	Unit 4 (min)	189.84	lbs/hr
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max /12 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	3-Hour	0.48	0.48	1016	14292	595	2608
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 16 hrs max/ 8 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours	3-Hour	0.48	0.48	1016	15619	651	2851
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max /12 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	3-Hour	0.56	0.56	1196	16808	700	3067
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours	3-Hour	0.56	0.56	1196	18402	767	3358
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max /12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	3-Hour	0.30	0.30	947	14066	586	2567
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max /12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	3-Hour	0.33	0.33	1049	15552	648	2838
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max /12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	3-Hour	0.33	0.33	1072	15894	662	2901
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max /12 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	3-Hour	0.29	0.29	909	13493	562	2462
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max /12 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	3-Hour	0.31	0.31	978	14497	604	2646
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max /12 hrs min	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	3-Hour	0.32	0.32	1031	15297	637	2792
			Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	24-Hour	0.39					

Mirant Potomac, Alexandria, Virginia  
Complying SO2 Rates (Existing Stacks)

Assumes Background Concentrations (µg/m³)  
Annual: 16

Scenario	Units On	Operating Hours	Modeled Emission Rates & Operating Hours																Averaging Period	Complying SO <sub>2</sub> Rate (lb/MMBtu)	Complying SO <sub>2</sub> Rate (tpy)		
			Unit 3 (max)	804.22	lbs/hr	Unit 3 (min)	298.62	lbs/hr	Unit 4 (max)	858.73	lbs/hr	Unit 4 (min)	312.445	lbs/hr			lbs/hr					lbs/hr	
1a	3 & 4	Both Units @ 16 hrs max/ 8 hrs min	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours			lbs/hr		lbs/hr	Annual	0.79	5748	
1b	3 & 4	Both Units @ 12 hrs max/ 12 hrs min	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours			lbs/hr		lbs/hr	Annual	0.73	4602	
2a	3 & 5	Both Units @ 16 hrs max/ 8 hrs min	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours			lbs/hr		lbs/hr	Annual	0.99	7261	
2b	3 & 5	Both units @ 12 hrs max/ 12 hrs min	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours			lbs/hr		lbs/hr	Annual	0.87	5523	
3a	4 & 5	Both Units @ 16 hrs max/ 8 hrs min	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours			lbs/hr		lbs/hr	Annual	1.10	8317	
3b	4 & 5	Both units @ 12 hrs max/ 12 hrs min	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours			lbs/hr		lbs/hr	Annual	0.93	6080	
4a	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours	Annual	0.77	6133
4b	1,2,3	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	12	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Annual	0.74	5801
5a	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours	Annual	0.84	6881
5b	1,2,4	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Annual	0.80	6423
6a	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours	Annual	1.07	8522
6b	1,2,5	Units 1,2 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 5 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	12	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Annual	0.97	7604
7a	3,4,5	All units @ 16 hrs max/ 8 hrs min	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours	Annual	0.64	7095
7b	3,4,5	All units @ 12 hrs max/ 12 hrs min	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours	Annual	0.56	5373
7c	3,4,5	All units @ 8 hrs max/ 16 hrs min	Unit 3 (max)	8	hours	Unit 3 (min)	16	hours	Unit 4 (max)	8	hours	Unit 4 (min)	16	hours	Unit 5 (max)	8	hours	Unit 5 (min)	16	hours	Annual	0.53	4295
8a	1	8 hrs max/ 8 hrs min/ 8 hrs off	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours									lbs/hr		lbs/hr	Annual	3.77	8493	
8b	1	16 hrs max/ 8 hrs off	Unit 1 (max)	16	hours												lbs/hr		lbs/hr	Annual	4.11	12637	
9a	2	8 hrs max/ 8 hrs min/ 8 hrs off	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours									lbs/hr		lbs/hr	Annual	2.94	6430	
9b	2	16 hrs max/ 8 hrs off	Unit 2 (max)	16	hours												lbs/hr		lbs/hr	Annual	2.98	8954	
10a	3	12 hrs max/ 12 hrs min	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours									lbs/hr		lbs/hr	Annual	1.36	4158	
10b	3	16 hrs max/ 8 hrs min	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours									lbs/hr		lbs/hr	Annual	1.43	5040	
11a	4	12 hrs max/ 12 hrs min	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours									lbs/hr		lbs/hr	Annual	1.58	5130	
11b	4	16 hrs max/ 8 hrs min	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours									lbs/hr		lbs/hr	Annual	1.74	6528	
12a	5	12 hrs max/ 12 hrs min	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours									lbs/hr		lbs/hr	Annual	2.27	7469	
12b	5	16 hrs max/ 8 hrs min	Unit 5 (max)	16	hours	Unit 5 (min)	8	hours									lbs/hr		lbs/hr	Annual	2.52	9601	
13a	1,2	Both units 8 hrs max/ 8 hrs min/ 8 hrs off	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 2 (max)	8	hours	Unit 2 (min)	8	hours			lbs/hr		lbs/hr	Annual	1.65	7326	
13b	1,2	Both units 16 hrs max/ 8 hrs off	Unit 1 (max)	16	hours				Unit 2 (max)	16	hours						lbs/hr		lbs/hr	Annual	1.72	10457	
14a	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 3 (max)	12	hours	Unit 3 (min)	12	hours			lbs/hr		lbs/hr	Annual	0.99	5257	
14b	1,3	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 3 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 3 (max)	16	hours	Unit 3 (min)	8	hours			lbs/hr		lbs/hr	Annual	1.04	6008	
15a	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 12 hrs max/ 12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 4 (max)	12	hours	Unit 4 (min)	12	hours			lbs/hr		lbs/hr	Annual	1.11	6104	
15b	1,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off; Unit 4 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 4 (max)	16	hours	Unit 4 (min)	8	hours			lbs/hr		lbs/hr	Annual	1.19	7145	

Scenario	Units On	Operating Hours	Modeled Emission Rates & Operating Hours																Averaging Period		Complying SO <sub>2</sub> Rate (lb/MMBtu)	Complying SO <sub>2</sub> Rate (tpy)		
			Unit 1 (max)	1505.79	lbs/hr	Unit 1 (min)	700.7	lbs/hr	Unit 5 (max)	1583.01	lbs/hr	Unit 5 (min)	565.57	lbs/hr			lbs/hr							lbs/hr
16a	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max/12 hrs min	Unit 1 (max)	8	hours	Unit 1 (min)	8	hours	Unit 5 (max)	12	hours	Unit 5 (min)	12	hours			hours			hours	Annual		1.43	7927
16b	1,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	Unit 1 (max)	1747.98	lbs/hr	Unit 1 (min)	813.4	lbs/hr	Unit 5 (max)	1837.62	lbs/hr	Unit 5 (min)	656.53	lbs/hr			hours			hours	Annual		1.66	10064
17a	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 12 hrs max/12 hrs min	Unit 2 (max)	956.97	lbs/hr	Unit 2 (min)	436.17	lbs/hr	Unit 3 (max)	946.74	lbs/hr	Unit 3 (min)	351.54	lbs/hr			hours			hours	Annual		0.93	4877
17b	2,3	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 3 @ 16 hrs max/ 8 hrs min	Unit 2 (max)	987.84	lbs/hr	Unit 2 (min)	450.24	lbs/hr	Unit 3 (max)	977.28	lbs/hr	Unit 3 (min)	362.88	lbs/hr			hours			hours	Annual		0.96	5483
18a	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 12 hrs max/12 hrs min	Unit 2 (max)	1049.58	lbs/hr	Unit 2 (min)	478.38	lbs/hr	Unit 4 (max)	1108.74	lbs/hr	Unit 4 (min)	403.41	lbs/hr			hours			hours	Annual		1.02	5542
18b	2,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 4 @ 16 hrs max/ 8 hrs min	Unit 2 (max)	1121.61	lbs/hr	Unit 2 (min)	511.21	lbs/hr	Unit 4 (max)	1184.83	lbs/hr	Unit 4 (min)	431.095	lbs/hr			hours			hours	Annual		1.09	6473
19a	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 12 hrs max/12 hrs min	Unit 2 (max)	1337.7	lbs/hr	Unit 2 (min)	609.7	lbs/hr	Unit 5 (max)	1439.1	lbs/hr	Unit 5 (min)	514.15	lbs/hr			hours			hours	Annual		1.30	7121
19b	2,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Unit 5 @ 16 hrs max/ 8 hrs min	Unit 2 (max)	1533.21	lbs/hr	Unit 2 (min)	698.81	lbs/hr	Unit 5 (max)	1649.43	lbs/hr	Unit 5 (min)	589.30	lbs/hr			hours			hours	Annual		1.49	8935
20	1,3,4	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max/12 hrs min	Unit 1 (max)	642.33	lbs/hr	Unit 1 (min)	298.9	lbs/hr	Unit 3 (max)	620.98	lbs/hr	Unit 3 (min)	230.58	lbs/hr	Unit 4 (max)	663.07	lbs/hr	Unit 4 (min)	241.255	lbs/hr	Annual		0.61	5220
21	1,3,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max/12 hrs min	Unit 1 (max)	747.63	lbs/hr	Unit 1 (min)	347.9	lbs/hr	Unit 3 (max)	722.78	lbs/hr	Unit 3 (min)	268.38	lbs/hr	Unit 5 (max)	785.97	lbs/hr	Unit 5 (min)	280.805	lbs/hr	Annual		0.71	6106
22	1,4,5	Unit 1 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max/12 hrs min	Unit 1 (max)	789.75	lbs/hr	Unit 1 (min)	367.5	lbs/hr	Unit 4 (max)	815.25	lbs/hr	Unit 4 (min)	296.625	lbs/hr	Unit 5 (max)	830.25	lbs/hr	Unit 5 (min)	296.625	lbs/hr	Annual		0.75	6592
23	2,3,4	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,4 @ 12 hrs max/12 hrs min	Unit 2 (max)	596.82	lbs/hr	Unit 2 (min)	272.02	lbs/hr	Unit 3 (max)	590.44	lbs/hr	Unit 3 (min)	219.24	lbs/hr	Unit 4 (max)	630.46	lbs/hr	Unit 4 (min)	229.39	lbs/hr	Annual		0.58	4925
24	2,3,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 3,5 @ 12 hrs max/12 hrs min	Unit 2 (max)	699.72	lbs/hr	Unit 2 (min)	318.92	lbs/hr	Unit 3 (max)	692.24	lbs/hr	Unit 3 (min)	257.04	lbs/hr	Unit 5 (max)	752.76	lbs/hr	Unit 5 (min)	268.94	lbs/hr	Annual		0.68	5804
25	2,4,5	Unit 2 @ 8 hrs max/ 8 hrs min/ 8 hrs off, Units 4,5 @ 12 hrs max/12 hrs min	Unit 2 (max)	730.59	lbs/hr	Unit 2 (min)	332.99	lbs/hr	Unit 4 (max)	771.77	lbs/hr	Unit 4 (min)	280.805	lbs/hr	Unit 5 (max)	785.97	lbs/hr	Unit 5 (min)	280.805	lbs/hr	Annual		0.71	6194